

Title (en)

DUST SENSOR MODULE AND OPERATING METHOD THEREOF

Title (de)

STAUBSENSORMODUL UND BETRIEBSVERFAHREN DAFÜR

Title (fr)

MODULE DE CAPTEUR DE POUSSIÈRE ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

**EP 3482667 A1 20190515 (EN)**

Application

**EP 18205400 A 20181109**

Priority

KR 20170150463 A 20171113

Abstract (en)

The present invention provides a dust sensor module, comprising: a battery supplying power; a sensor sensing dust using power supplied from the battery; a detector detecting whether or not the dust sensor module is used; and a controller operating in a first mode or a second mode based on a detection result of the detector. The controller supplies the power to the sensor in the first mode and cuts off power supplied to the sensor in the second mode.

IPC 8 full level

**A47L 9/28** (2006.01); **A47L 5/36** (2006.01); **A47L 9/32** (2006.01); **G01C 9/06** (2006.01); **G01C 9/10** (2006.01); **H01M 2/34** (2006.01)

CPC (source: EP KR)

**A47L 5/362** (2013.01 - EP); **A47L 9/2805** (2013.01 - EP); **A47L 9/281** (2013.01 - KR); **A47L 9/2815** (2013.01 - EP); **A47L 9/2852** (2013.01 - EP); **A47L 9/2868** (2013.01 - KR); **A47L 9/2884** (2013.01 - EP); **A47L 9/2894** (2013.01 - EP); **A47L 9/327** (2013.01 - EP); **G01C 9/06** (2013.01 - EP); **G01C 9/10** (2013.01 - EP); **G01N 15/0205** (2013.01 - KR); **Y02B 40/00** (2013.01 - EP)

Citation (search report)

- [XA] EP 1333555 A2 20030806 - MIELE & CIE [DE]
- [A] US 2010186187 A1 20100729 - CHEUNG WILLIAM K Y [HK], et al
- [A] US 5815884 A 19981006 - IMAMURA NOBUO [JP], et al
- [A] EP 2113182 A1 20091104 - BLACK & DECKER INC [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3482667 A1 20190515**; **EP 3482667 B1 20220330**; KR 102385755 B1 20220413; KR 20190054326 A 20190522

DOCDB simple family (application)

**EP 18205400 A 20181109**; KR 20170150463 A 20171113